

U.S. Pat. App. Ser. No. 10/621,897
Docket No. 056754/0119588
Amendment and response to 4/3/2006 Office Action

Amendment to the Specification:

On pages 22-23 of the Specification, please amend the paragraph beginning at line 20 of page 22 to read:

Nanoparticles that are monofunctionalized regarding the recognition element are important for this type of a self-replicating monolayer system. If the replicating monomer nanoparticles are not monofunctionalized with regards to the recognition element, forming multilayers and/or polymeric chains of the replicating monomers will become problematic due to unwanted cross-linking. The patent family of Hainfeld et al (U.S. Pat. No. 5,521,289, Hainfeld et al. (1996); U.S. Pat. No. 6,121,425, Hainfeld et al. (2000)) discloses methods for making monofunctionalized nanoparticles that involve HPLC purification and various precipitations. Various statistical methods can also be envisioned for obtaining monofunctionalized nanoparticles (which can otherwise be fully functionalized with the cross-linking ligands). Other suitable methods for making monofunctionalized nanoparticles are described in co-pending U.S. Pat. Application Ser. No. 10/621,790, ("Nanoparticle chains and preparation thereof", Jacobson et al, July 17, 2003).